

In re: Dent
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signal;

modulating said composite signal on a radio frequency carrier to form a radio frequency signal; and

transmitting said radio frequency signal to said plurality of mobile stations with an associated phase as received at ones of the plurality of mobile stations for use by the receiving ones of the plurality of mobile stations in extracting traffic signals intended for the receiving ones of the plurality of mobile stations.

47. (Amended) A code division multiple access communication system for transmitting control information and user traffic signals from a first base station to a plurality of mobile stations comprising:

means for coding control information using a spread spectrum code unique to control information to form a calling channel signal, wherein a duration of each of a succession of data blocks in the calling channel signal is equal to a duration of a speech coder's analysis period and wherein said control information means carries information for a specified group of mobile stations only at predetermined times;

means for coding each user traffic signal using a spread spectrum code unique to each traffic signal;

means for adding said calling channel signal and said coded traffic signal to obtain a composite signal;

means for modulating said composite signal on a radio frequency carrier to form a radio frequency signal; and

means for transmitting said radio frequency signal to said plurality of mobile stations with an associated phase as received at ones of the plurality of mobile stations for use by the receiving ones of the plurality of mobile stations in extracting traffic signals intended for the receiving ones of the plurality of mobile stations.

49. (Amended) A code division multiple access communication system for transmitting control information and user traffic signals from a first base station to a plurality of mobile stations comprising:

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a calling channel modulation generator that is configured to code control information using a spread spectrum code unique to control information to form a calling channel signal, wherein a duration of each of a succession of data blocks in the calling channel signal is equal to a duration of a speech coder's analysis period and wherein the control information carries information for a specified group of mobile stations only at predetermined times;

a traffic channel modulation generator that is configured to code each user traffic signal using a spread spectrum code unique to each traffic signal;

a summing network that is configured to add the calling channel signal and the coded traffic signals to provide a composite signal;

a mixer that is configured to modulate the composite signal on a radio frequency carrier to form a radio frequency signal; and

a transmit power amplifier that is configured to transmit the radio frequency signal via an antenna to the plurality of mobile stations with an associated phase as received at ones of the plurality of mobile stations for use by the receiving ones of the plurality of mobile stations in extracting traffic signals intended for the receiving ones of the plurality of mobile stations.
